

XI.—One New Genus and some New Species of Cassidae from Borneo, with a List of all the Species at present known from that Island.—
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The descriptions of new species in this paper are drawn up chiefly from material sent to me from the Sarawak Museum during the last few years. The opportunity has been taken at the same time to list all the species of this Family at present known from Borneo, and, at my request, Mr. J. C. Moulton, Curator of the Sarawak Museum, has kindly added the data of the specimens of Cassidae under his care.

In point of numbers this list is not so extensive as that of the Bornean Hispidae recently published by Dr. Gestro, in which 59 different species are recorded from Borneo, and there is little doubt that further collections from this interesting country will provide further additions to our list of Cassidae.

GENUS, HOPLIONOTA.

1.—*Hoplionota horrifica*, Boh.

Sarawak: Kuching, Santubong, in February, April and November 1900–1911 (Sar. Mus.).

var. *rufa*, Wagener, Mitt. Münch. Ent. Verein. 1881, p. 20.

ferruginea, Spaeth, Ann. Mus. Civ. Gen. 1904, p. 69.
horrifica var. *a*, Boh.

Borneo.

2.—*Hoplionota Brookei*, n. sp.

Subquadrata, minus convexa, parum nitida, flavo-testacea, disco elytrorum rufopiceo, sutura carinisque vix dilutioribus rufescensibus clypeus inter oculos impressus, fovea minus profunda, medio carinata; crista frontalis ante oculos triangulariter angustata sat producta, medio emarginata; antennae prothorace breviores, articulis 4–6 subelongatis, 8–11 incrassatis, 8 longiore, 9 et 10 brevioribus; prothorax longitudine triplo latior lateribus; subparallelis, angulis antice breviter rotundatis, posticis rectis, acutis; disco laevi sulcis duabus transversis, sat profunde punctatis, lateribus profunde, sat crebre

foveolato punctatis; elytra lateribus parallelis, postice breviter rotundata, disco subregulariter, crebre minus profunde striato punctato, carinato, nempe carina dorsali a basi orta apicem disci attingente, quadrituberculata, tuberculo 3 parum altiore, ceteris perparvis; carina humerali a basi orta, medio breviter interrupta, apicem non attingente, carinisque duabus transversis, anteriore ad tuberculum maximum ascendentे suturamque attingente, posteriore anastomosante; protectum deplanatum, sat latum, sat profunde rugoso-punctatum. $6\cdot5 \times 5$ mm.

H. Brookei est *Hoplionotae horrifcae*, Boh., proxima, magnitudine, lateribus magis parallelis multo minus ampliatis, antennis brevioribus, disco elytrorum toto rufopiceo, tuberculo maximo altiore, protecto apice latiore, non attenuato, profundius punctato differt.

Sarawak: Kuching, Matang and Mt. Klingkang.

Typi in Museo Sarawacensi et in mea collectione asservati sunt.

I beg to respectfully dedicate this species to His Highness the Rajah of Sarawak.

3.—*Hoplionota Moultoni*, n.sp.

Subrotundata, parum convexa, minus nitida, corpore flavo, capite antennisque rufo-testaceis, prothorace, scutello elytrisque laete rufopiceis, protecto parum dilutiore, basi interiore rufo-translucente; clypeus fovea magna nec profunda sagittiformi, medio breviter carinulata; crista frontalis ante oculos valde producta et ampliata, partem interiorem oculorum includente, quadra, apice truncata, medio breviter incisa; antennae breves, prothorace multo breviores, articulis 4-6 elongatis, clava brevissima, articulis 8-10 longitudine triplo latioribus, breviter aureo pubescentibus. Prothorax parvus, longitudine basi duplo latior, basi extus producta, angulis posticis subrectis, lateribus obliquis, angulis anticis deficientibus, disco minus convexo, sublaevi, sulcis tantum duabus minus profundis, hic illic punctatis, lateribus multo profundius nec crebrius foveolato punctatis.

Elytra minus convexa, humeris leviter productis, lateribus ampliatis, apice late rotundato; disco subregulariter punctato-striato nec carinato, tuberculis tantum minimis biseriatis, serie interiore locum carinae dorsalis tenente e tuberculis 4 formata, quorum 3 paullo maior, serie exteriore loci carinae humeralis atque e tuberculis 4 formata, quorum tertius transversus, carinam primam transversam significat; protectum deplanatum, latum

intus antice lucidior et sublaevis, ceterum minus profunde subregulariter punctato-striatum, limbo toroso marginatum. 6×5.8 mm.

H. Moultoni est affinis *H. obscurae*, Wagener, ex insula Celebes, in primis propter elytra non carinata, sed differt forma magis rotundata, lateribus minus parallelis, apice magis rotundato, prothorace minus lato, huius lateribus magis rotundatis, minus obliquis, elytris profundius punctatis, limbo protecti non dilutiore. A *H. Clavareaui*, m., *H. Moultoni* magnitudine, antennis brevioribus, elytris minus dense punctatis, a *H. circumdata*, Wagener, magnitudine multo minore, colore paginae superioris obscuriore, tuberculis maioribus, protecto minus lato differt.

Sarawak: Matang and near Kuching, August 1899 and September 1910.

Typi huius speciei, quem in honorem custodis Musei Sarawacensis domini illustrissimi M. Moultonis dedico, in Museo Sarawacensi et in mea collectione asservati sunt.

4.—*Hoplionota Weyersi*, Spaeth, var.? Ann. Soc. Ent. Belg. 1900, p. 20.

Brunei. The type form was described from Sumatra.

5.—*Hoplionota circumdata*, Wagener, Mitt. Münch. Ent. Ver. 1881, p. 17.

Sarawak: Mt. Matang, April 1902 (Sar. Mus.).

GENUS, PRIOPTERA.

6.—*Prioptera decempustulata*, Boh. M. I., p. 55.

Pontianak (coll. Spaeth).

Subsp. *sarawacensis*, Spaeth.

Sarawak: Lawas, Trusan, Lingga, Samarahan, Santubong, Kuching, Pangkalan Ampat (Sar. Mus.). Taken commonly all the year round 1899–1911.

Omnia specimina huius speciei, quae in Sarawak inventa sunt, differunt a forma typica, propria in primis insulis Sumatra, Java et peninsulae Malakka, gibbo elytrorum minus alto, postice oblique haud concave descendente, antice minus declivi.

Specimina *Pr. 10—pustulatae*, B., quae e Borneone hollandico (Pontianak) proveniunt, transitum inter formam typicam et subspeciem *sarawacensem* formare videntur, nam gibbus est minus altus quam in speciminibus e Sumatra, sed altior quam in sarawacensibus, et descendit postice in linea perparum concava.

Pr. octopunctata, F., quae in insula Java tantum vivere videtur, differt a *P. 10—pustulata*, Boh., gibbere vix visibili, multo minus alto et acuto, antice minus declivi, postice in linea *aequa* vix descendente, maculis prothoracis magis antice sitis, limbo postico non adfixis, elytris medio magis sinuato-ampliatis.

Eadem differentiae separant *P. 8—punctatam* a *P. sarawacensi*, in qua forma gibbus altior antice magis declive ascenditur eiusque linea imaginis obliquae multo distinctius rumpitur.

Differentiae *P. 10—pustulatae* et *P. 8—punctatae*, a domino Boheman dictae, nempe color pectoris et antennarum punctique elytrorum minus distincti non valent.

7.—*Prioptera atricornis*, n. sp.

Obovato-rotundata, convexa, parum nitida lurida, antennis nigris, articulo basali tantum flavo, prothorace maculis 2 nigris, elytris dilute sanguineis, maculis 8 nigro-cyaneis, nempe 1 et 2 in disco antico, transversae, 3 in protecto postico, magna, 4 pone medium ad suturam. Prothorax sublaevis, fovea maiore antescutellari lineaque insculpta a basi orta apicem attingente, discum circumcingente; elytra lateribus sat sinuato-ampliatis, disco convexo, gibbere alto et acuto, postice anticeque concave ascendentem; basi retusa, minus crebre sat fortiter punctata, punctis hic illic seriatis, carina parum distincta a gibbere orta apicem non attingente in macula 4 distinctiore; prope gibberem utrinque bifoveolata, foveolis latis, nec profundis; protecto perlato, sublaevi; epipleurae apice longe ciliatae. 11 × 9 mm.

Mus. Sarawac: Borneo, Kuching (ix. 1900) and Mt. Lingga. v. 1909; Coll. Spaeth: Borneo.

Var. prothorace immaculato.

Coll. Spaeth: Brunei (Waterstradt coll.).

P. 8—maculatae, Boh., e Java, cuius typum e museo Hohniensi vidi, valde affinis, antennis nigris, elytris distinctius punctatis distincta, forsitan subspecies.

GENUS, ASPIDOMORPHA.

8.—*Aspidomorpha miliaris*, Fab., Syst. Ent., p. 91.

Pontianak; Sarawak: Lawas, Trusan, Kuching, Bau, Bidi, Buntal, Pangkalan Ampat (Sar. Mus.).

A full description of the life history of this species by Captain C. F. Bishop appears in the *Journal of the Straits Branch, Royal Asiatic Society*, No. 53, 1909, pp. 129–137, with plate.

9.—*Aspidomorpha sarawacensis*, Spaeth, Ann. Mus. Civ. Genova, 1904, p. 73.

Sarawak: Lawas, Kuching, Satap and Bidi (Sar. Mus.). Pontianak (coll. Spaeth).

The two examples from Lawas are distinctly smaller than the others from Kuching and neighbourhood.

10.—*Aspidomorpha castaneipennis*, n. sp.

Rotundata, nitida, convexa, testacea, antennarum articulis 2 ultimis nigris, discis prothoracis et elytrorum ramisque duobus latis protecti castaneis, protecto ceterum hyalino, dilutius fenestrato. Antennae sat longae et tenues; prothorax transverso-ellipticus angulis rotundatis; elytra prothorace basi multo latiora, humeris subobtusis prominulis, valide obtuse gibbosa, disco subtiliter remote striato-punctata, parum inaequalia; unguiculi brevissime pectinati, epipleurae apice sat longae ciliatae.

$11.5 \times 11 - 13.5 \times 12.5$ mm.

Coll. Spaeth: Nias, Sumatra (Palembang, Padang, Solok).

var. a. ramo postico protecti subeffuso, lineiformi:

Mus. Sarawacense: Borneo, Sarawak: Kuching, Mt. Matang, 3,200 ft., Mt. Penrissen, Santubong.

var. b. *borneensis*, nov. var.

ramo postico protecti deficiente. 12.5×12 mm.

Coll. Spaeth: Borneo, Pontianak, Sarawak.

Ex affinitate proxima *Aspidomorphae St. Crucis*, F., differt ab hac specie unguiculis multo brevius pectinatis, antennis gracilioribus, disco protecti haud inaequali, denique colore laete castaneo disci.

Ab *A. ponderosa*, Boh., ex insulis Ceram et Amboina, cui proxima est, differt forma minore, elytris multo subtilius striato punctatis, protecto angustiore, colore disci dilutiore.

11.—*Aspidomorpha fuscopunctata*, Boh.

Sarawak: Lawas, Sibu, Satap and Bidi (Sar. Mus.).

var. *rubrodorsata*, Boh.

Sarawak: Trusan, Kuching and Bidi (Sar. Mus.).

12.—*Aspidomorpha assimilis*, Boh.

Sarawak: Lawas, Trusan, Sibu and Bidi (Sar. Mus.).

13.—*Aspidomorpha dulcicula*, Boh.

Sarawak: Limbang, Klingkang, Mt. Penrissen, Mt. Matang, Kuching and Lundu (Sar. Mus.); Pontianak and Banguey (coll. Spaeth).

Common in Sarawak.

14.—*Aspidomorpha st. crucis*, F., var. *insularis*, nov. var.

A forma typica differt statura minore, minus convexa, colore disci dilutiore, magis testaceo, in primis disco elytrorum multo minus inaequali, protecto magis deplanato, elytris brevioribus et latioribus lateribus magis rotundatis, prothorace basi dimidio fere latioribus (in forma typica tantum quarto). $11 \times 11 - 12 \times 12$ mm.

Mus. Sarawacense: Borneo, Lawas, Trusan and Limbang (Sarawak).

Coll. Spaeth: Borneo, Sumatra (ex coll. Baly).

Rami protecti saepe disco sunt multo obscuriora.

Very common at Lawas flying with *A. assimilis* and *Chirida punctata* over low-growing herbage.

15.—*Aspidomorpha suavis*, n. sp.

Rotundato-subtriangularis, sat convexa, nitidissima, flavotestacea, antennis apice vix obscurioribus, elytris disco laete castaneis, basi, callo humerali excepto, vitta brevi sat lata in disco exteriore, medio ramum angustum ad suturam emitte, pone pontem protecti angusta ad ramum posticum continuata, ramisque duobus latis protecti rufopiceis, disco apice pallescente, protecto hyalino, ponte protecti distincte flava. Antennae minus breves, apice modice incrassatae; prothorax angulis rotundatis parum ante basin sitis; elytra prothorace basi fere dimidio latiora, humeris parum prominentibus, obtuso-angulatis, lateribus modice ampliata, ante basin latissimis, tum ad apicem oblique rotundato-angustatis, basi retusa, sat acute gibbosa, gibbo antice posticeque evidenter concave descendente disco aequali, subtilissime striato-punctato, striis intus posticeque effusis; protecto laevi, limbo leviter reflexo.

10×9 mm.

Collect. Spaeth: Borneo: Doesolandem (a dom. Wahnes collecta), Brunei, (a dom. Waterstradt coll.); 2 spec. ex coll. dom. van de Polli.

Statura et magnitudine *A. inquinatae*, Boh., cui affinis, sed prothorace breviore et latiore, humeris magis productis, minus angulatis, gibbo altiore et acutiore, postice multo magis concave descendente protecto latiore colore alio, aliter signata.

A. dorsata, F., statura minore, magis subtriangulari et breviore, ramo postico protecti, signaturis aliis, elytris subtilius punctatis differt.

GENUS, RHACOCASSIS.

16.—*Rhacocassis flavoplagiata*, Baly.

Sarawak: Marapok Mts., Saribas and Kuching (Sar. Mus.).

Not abundant.

GENUS, THLASPIDULA.

17.—*Thlaspidula fimbriata*, Spaeth.

Sarawak.

GENUS, THLASPIDOSOMA.

18.—*Thlaspidosoma Dohrni*, Spaeth.

Sarawak: Klingkang Mts., Mt. Saribu, Mt. Penrissen, 3,200 ft., Mt. Matang, 3,200 ft., and Kuching (Sar. Mus.).

var. *limbata*, nov. var.

A forma typica differunt nonnulla specimina, capta in monte Penrissen prope Kuching ramo posteriore protecti deficiente.

Typi in museo Sarawacensi et in mea collectione.

GENUS, CREPIDASPIS, NOV. GEN.

Corpus subrotundatum, convexum; caput obtectum antennae longae, coxas posticas attingentes, filiformes, articulis 6 basalibus glabris ceteris pilosis, vix incrassatis, articulo 2 brevi, incrassato, 3 parum longiore, tenuiore, 4 et 5 longissimis, crassitudine triplo longiora, 6 dimidio antecedentibus breviore, 7-10 longitudine sexti, aequalibus plus duplo longioribus quam crassis, ultimo longo, acuminato; clypeus minus angustus, sulcis deficientibus; prosternum medio haud emarginatum, apice rotundatum; prothorax subellipticus angulis medio sitis rotundatis; elytra convexa, leviter gibbosa, basi emarginata humeris prominulis, disco striato-punctato; pedes breviusculi, tarsis sat latis, unguiculis muticis.

Generi *Thlaspidosoma*, m., affinis, antennis brevioribus multo minus gracilibus, clypeo latiore, prosterno non emarginato, unguiculis longioribus differt.

19.—*Crepidaspis varicornis*, n. sp.

Subrotundata, convexa, nitida, testacea, antennarum articulis 7-10 nigris, ultimo flavo, prothorax basi utrinque vitta obliqua, nigra; elytra macula magna nigra communi in gibbo vittaque sat lata nigra in disco exteriore, a basi supra callum humerale orta, ad

pontem protecti extus magis, intus minus emarginata inde interstitium ultimum relinquente, apice ad suturam ducta ibique alteris approximata; prothorax subellipticus, laevis; elytra leviter gibbosa, gibbo antice magis declivi, vix concavo, postice non emarginato, minus obliquo; punctato-striata, punctis sat magnis et profundis, interstitiis latioribus, laevibus, nitidis; protectum intus magis, ad limbum minus obliquum, laeve; epipleurae apice leviter ciliatae. 7×7 mm.

Typi in museo Sarawacensi, in museo germanico entomologico Berolinensi atque in mea collectione asservati sunt.

GENUS, CHIRIDA.

20.—*Chirida punctata*, Web.

Sarawak: Lawas and Trusan (Sar. Mus.).

Fairly common in those two localities.

21.—*Chirida scalaris*, Web.

Sarawak: Satap, Bau and Bidi (Sar. Mus.).

GENUS, LORENTSIA.

22.—*Lorentzia purpurascens*, n. sp.

Subquadrangularis, convexa, nitida, rufo-testacea, prothorax basi macula magna quadra, apice medio in acumen breve conducta nigra, indistincte antice lateribusque castaneo-circumcincta; scutellum purpureum; elytra disco atro, plaga magna communi circum gibbum, macula parva utrinque ad suturam multo ante apicem, ponte protecti purpureis; protectum rufotestaceum pone medium purpurascens, limbo apicali tantum decolorato; clypeus laevis, planus, sulcis frontalibus deficientibus; antennae longae, prothoracis angulos superantes, articulo 3 longissimo, secundo plus duplo longiore, 4-6 brevioribus, laevibus, ceteris scabris, latitudine plus duplo longioribus. Prothorax transversus, antice late rotundatus, basi intus subtruncata, extus valde oblique producta ante angulos sat profunde sinuata, angulis evidentibus, fere medio sitis, disco laevi, nitidissimo, limbo vix reflexo; scutellum triangulare; elytra humeris prominentibus prothoracem circumcingentes, basi intus truncata, extus valde ad humeros angulatos rotundato-producta lateribus ab humeris sat ampliatis, ante medium latissimis, tum oblique rotundato angustatis; basi retusa, gibbo magno sat acuto, antice

posticeque evidenter concavo; disco obsolete striato-punctato, striis mediis effusis, prima tantum et ultima apicem attingentibus fovea parva oblique pone gibbum; protectum latum, apice vix angustatum, laeve, impressiōnibus nonnullis indistinctis latis; unguiculi intus vix visibiliter levissime crenata. 11×10 mm.

Coll. Spaeth: Borneo (a dom. Wahnes coll.).

Haec species pulcherrima et distinctissima a *Lorentzia papuana*, m., ex Nova Guinea differt statura subquadrangulari, postice magis obliquata, prothorace latiore, antice minus rotundato, humeris magis angulariter productis, gibbo maiore, magis concavo, protecto antice multo latiore, disco levius striato-punctato, signatura et colore tote alienis.

GENUS, METRIONA.

23.—*Metriona triangulum*, Weise.

Sarawak: Lawas, Busau and Bidi (Sar. Mus.).

24.—*Metriona catenata*, F.

Sarawak: Trusan, Limbang, Kapit, Busau and Bidi (Sar. Mus.).

25.—*Metriona recondita*, Boh.

Sarawak: Marapok Mts., Lawas, Bau and Bidi (Sar. Mus.).

26.—*Metriona stellifera*, n. sp.

Rotundata, convexa, nitida, flavo-testacea supra annulo piceo; antennae graciles, prothorace sat longiores, articulo 1 elongato, 2 brevi latitudine paullo longiore, 3 praecedente parum longiore, 4 longissimo, praecedente fere dimidio longiore, 5 tertio paullo longiore, 6 breviore, tertio fere aequali, his glabris, ceteris vix pubescentibus, haud incrassatis, longitudine 3 fere aequalibus, ultimo acuminato, longiore; clypeus planus, laevis; prothorax ellipticus, longitudine duplo latior, apice basique aequaliter rotundatus, angulis medio sitis breviter rotundatis, disco laevi, macula antescutellari antice sinuato-angustata flavo-bipunctata picea; scutellum triangulare, flavo-testaceum; elytra prothorace basi parum latiora, late emarginata, humeris leviter productis, acuminatis, lateribus dilatatis medio latissimis; disco convexo, striato-punctato, punctis parvis, in dorso profundioribus et maioribus apice subevanescentibus, interstitiis sat latis, laevibus; basi pone scutellum anguste picea, extus vitta lata a basi orta, longitudinali,

utrinque multi-emarginata pone medium suturam attinente ibique nonnihil antice et postice continuata picea, callo, humerali flavo; macula flava ab annullo inclusa est leviter elevata, inaequalis antice posticeque, lateribus biemarginata, stellam hexagonalem imitans; protectum, laeve, sub-deplanatum, apice minus angustatum; unguiculi dentati. 6×5.5 mm.

Coll. Spaeth: Ins. Banguey, prope Borneo (coll. Waterstradt).

Metrionae obtivae Boh., affinis, minor, antennis gracilioribus et longioribus, elytris multo profundius et crebrius punctatis, annulo angustiore postice continuato, aliter constructo, macula inclusa elevata, breviore sexemarginata distincta.

27.—*Metriona obtiva*, Boh.

Sarawak: Simanggang, Mt. Matang, Kuching and Quop (Sar. Mus.).

Not common.

GENUS, LACCOPTERA.

28.—*Laccoptera tredecim-punctata*, F.

Sarawak: Lawas, Kapit (Sar. Mus.).

Vienna 9. xii. 1911.

